



**DESCRIPTION:**

Flame Control No. 170 is a flexible, intumescent type, fire resistant coating. When attacked by fire and/or high heat, the coating puffs up (intumesces) and forms a thick dense fire barrier, thus affording maximum burn through (fire) protection. This foam layer retards the penetration of heat to the substrate, thus insulating the surface.

Aluminum panels 0.050 inches thick, coated with No. 170 to a dry film thickness of 0.054 inches, have successfully passed the standard FAA 2000°F fire test, while panels were being subjected to simulated engine take off and operating conditions. The coated panels completed the FAA 15 minute requirement with an excellent time safety margin.

Flame Control No. 170 possesses outstanding properties in the following categories. Fire resistant (thermal insulating and burn through protection), adhesion to primed and bare aluminum, metal and alloy substrates, flexibility, and crack resistance under continuous vibrating conditions. Where maximum environmental protection is required, overcoat with Flame Control No. 190.

**RECOMMENDED USES:**

Developed primarily for the aircraft industries as an economical means of affording maximum fire protection to light weight metals, such as aluminum, magnesium, etc.

**PRODUCT SPECIFICATION:**

**Manufactured to Comply with:**

General Electric "Proprietary" Specification No. A50TF-183. Product Classification: Class "C"

**Fineness of Grind**

(ASTM D 1210). . . . . 1 N. S., maximum

**Solids, non-volatile**

(Fed test method STD. 141, method 4041.1). . . . . 70% minimum

**Specific Gravity**

(ASTM D 1475). . . . . 1.32 ± 0.03

**Viscosity**

(ASTM D 562, procedure "A")  
. . . . . 375 – 725 grams

**Certificate of Test**

A certificate of test will be forwarded upon request for each lot of material supplied.

**CHARACTERISTICS:**

**Colors** . . . . . White  
Special colors are available upon request

**V.O.C.** . . . . . 3.33 lbs/gal (400 g/L)

**Drying Time @ 77°F (25°C) & 50%**

**R.H.** . . . . . To recoat 1 – 2 hours

**Type of Cure** . . . . . Coalescence

**Flash Point.** . . . . . 40°F (4.4°C)  
(Pensky-Martens Closed Cup)

**Reducer/Cleaner** . . . . . No. 170 Reducer

**Shelf Life** . . . . . 1 year (unopened)

**Packaging** . . . . . 1 & 5 gal. containers

**Weight/Gal** . . . . . 10.9 ± 0.2 lbs.

**Shipping Weight.** . . . . . 4 gals. - 47 lbs.  
5 gals. - 58 lbs.

**Application** . . . . . Brush or airless spray

**PRECAUTIONS:**

WARNING! FLAMMABLE LIQUID & VAPOR: CONTAINS XYLENE & PETROLEUM DISTILLATES

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**Read MSDS before opening containers.**

**KEEP OUT OF REACH OF CHILDREN**

**SURFACE PREPARATION:**

Follow surface preparation as specified in appropriate process procedures or specifications.

**APPLICATION:**

Application and curing cycles must be followed as specified in the appropriate process procedures or specifications.

**APPLICATION EQUIPMENT:**

**Airless Spray**

**Titan 740 Impact** (or Equivalent)

Pump

Fluid Pressure. . . . . 2800-3200 psi

Manifold Filter . . . . . None

Gun Filter . . . . . 30 Mesh or remove

Fluid Hose . . . . . ¼" diameter

Gun . . . . . LX-80 II

Tip. . . . . .023 - .029

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.